

Quality Control

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Work Order ID 159459

Tuesday, April 11, 2017 12:50:28 PM

159459

Page 2

Item ID: 647.1305 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: EC145 Cable Cutter System Removable Provisions U Channel Compatible
Start Date: 4/18/2017 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 4/20/2017 Req'd Qty: 1.00 ***1*** Customer:
Reference: SCHEDDULED/C

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 *130* Packaging Packaging	Packaging Memo Identify and pack for shipping as per PPP 647.1305 Location: <u>Sold</u> EXPIRY DATE OF: RTV Loctite 598: <u>10/2018</u> MAGNOBOND 6398 PART 1: <u>5/08/2017</u> MAGNOBOND 6398 PART 2: <u>5/08/2017</u> SEALANT PR-1425: <u>9/30/2017</u> ***INDICATE ON BOX EXPIRY DATE OF RTV, MAGNOBOND PART1, MAGNOBOND PART2 AND SEALANT PR-1425 ***	0.00 0.00					DAS 28 9-89	APR 20 2017	
140 *140* QC Quality Control	QC21- Final Inspection - Work Order Release Memo *** Enter exp. date in lot maintenance for RTV loctite 598, MAGNOBOND PART1, MAGNOBOND PART2 AND SEALANT PR-1425***	0.00 0.10					DAS 21 9-89	APR 20 2017	APR 20 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ No Re-verification ☐ Design ☐ Operator ☐ Doc/Data ☐ Offset/Setup ☐ Equip/Tooling ☐ Supplier ☐ Handling/Pre ☐ Training ☐ Material ☐ Use for Testing ☐ Internal Transport ☐ Poor Information ☐ Tribal Knowledge ☐ Rushing ☐ LOA ☐ Product Improvement ☐ Substation ☐ Process Improvement ☐ Past Expiry Date ☐ Manufacturing Process ☐ Misidentified ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐		Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐		Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	
		OTHER : ☐							

Picklist Print

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Page 1

Work Order ID: 159459

159459

Parent Item: 647.1305

647 1305

Parent Item Name: EC145 Cable Cutter System Removable Provisions U Channel Compatible

Start Date: 4/18/2017

Required Date: 4/20/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A NEW ISSUE 13.07.16 JLM VERIFIED BY:DD IPP
REV:B 14.07.31 AS PER ECN C2 DD VERF:JLM IPP REV:C
15.07.09 AS PER REV D DD VERIFIED BY:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

600.0990		Purchased	No			110	Each	29.0000	1	1			
600 0990													
Magnabond 6398 Part A Size 112 ml													

DAS
28
9-89

Exp: 5/08/2017

Location	Loc Qty	Loc Code
PKG	29	
M136586	4	
<u>M136862</u>	12	
M137073	12	
M134249	1	

1/1/2017

600.0991		Purchased	No			110	Each	29.0000	1	1			
600 0991													
Magnabond 6398 Part B Size 112 ml													

DAS
28
89

Exp: 5/08/2017

Location	Loc Qty	Loc Code
PKG	29	
m136586	5	
<u>m136862</u>	12	
m137073	12	

600.1012		Purchased	No			110	Each	15.0000	1	1			
600 1012													
Sealant PR1425B2 (#654 sem)													

DAS
28
9-89

9/30/2017

Location	Loc Qty	Loc Code
cck017	15	
m136838	8	
m1370073	7	

APR 13 2017

DAS
28
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
OTHER : ☐									

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Page 2

Work Order ID: 159459

159459

Parent Item: 647.1305

647 1305

Parent Item Name: EC145 Cable Cutter System Removable Provisions U Channel Compatible

Start Date: 4/18/2017

Required Date: 4/20/2017

Start Qty: 1.00

Required Qty: 1.00

601.2045 Purchased No

110 Each 12.0000 1 1

601 2045

RTV (LOCTITE 598) McMaster p/n: 6641A41

**

APR 13 2017

DAS
6
9-89

DAS
27
9-89

Location Loc Qty Loc Code

CCK096

4

m136902

4

GA

8

m134260

8

601.2375 Manufactured No

110 Each 30.0000 3 3

601 2375

Washer

**

APR 13 2017

DAS
6
9-89

DAS
27
9-89

Location Loc Qty Loc Code

CCK096

30

91708

30

601.2999 Manufactured No

110 Each 31.0000 3 3

601 2999

Screw

**

APR 13 2017

DAS
6
9-89

DAS
27
9-89

Location Loc Qty Loc Code

CCK098

31

93369

31

647.0112 Manufactured No

110 Each 49.0000 8 8

647 0112

Strut Bracket

**

APR 13 2017

DAS
6
9-89

DAS
27
9-89

Location Loc Qty Loc Code

CCK106

17

156756

17

CCK106

32

155480

32

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step # : _____		QTY Effective : _____			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Work Order ID: 159459

159459

Parent Item: 647.1305

647 1305

Parent Item Name: EC145 Cable Cutter System Removable Provisions U Channel Compatible

Start Date: 4/18/2017

Required Date: 4/20/2017

Start Qty: 1.00

Required Qty: 1.00

647.1402 Manufactured No

110

Each

1.0000

1

1

647 1402

Lower Cutter Assembly

**

DAS 6 APR 13 2017

DAS 27 9-89

Location

Loc Qty

Loc Code

CCK048

1

155482

1

4/26/2018

1

1

647.1403 Manufactured No

110

Each

1.0000

647 1403

Upper Cutter Assembly, U-Channel

**

DAS 6 APR 13 2017

DAS 27 9-89

Location

Loc Qty

Loc Code

CCK048

1

155473

1

647.1601 Manufactured No

110

Each

3.0000

1

1

647 1601

Wiper Deflector Aft

**

DAS 6 APR 13 2017

DAS 27 9-89

Location

Loc Qty

Loc Code

CCK091

3

155569

3

647.1610 Manufactured No

110

Each

7.0000

1

1

647 1610

Wiper Deflector Fwd

**

DAS 6 APR 13 2017

DAS 27 9-89

Location

Loc Qty

Loc Code

CCK091

7

125082

7

647.1702 Manufactured No

110

Each

1.0000

2

2

647 1702

Skid Deflector Assembly

**

DAS 6 APR 13 2017

DAS 27 9-89

Location

Loc Qty

Loc Code

CCK033

1

154422

1

157781

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Page 3

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

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Page 4

Work Order ID: 159459

159459

Parent Item: 647.1305

647 1305

Parent Item Name: EC145 Cable Cutter System Removable Provisions U Channel Compatible

Start Date: 4/18/2017

Required Date: 4/20/2017

Start Qty: 1.00

Required Qty: 1.00

647.2010 Manufactured No

110 Each

51.0000

2 2

647 2010

Upper Strut

**

APR 13 2017

DAS 27 9-89
DAS 6 9-89

Location

Loc Qty

Loc Code

CCK094

51

106783

27

91895

24

647.2011 Manufactured No

110 Each

10.0000

2 2

647 2011

Lower Strut

**

APR 13 2017

DAS 27 9-89
DAS 6 9-89

Location

Loc Qty

Loc Code

Cck021

10

123511

2

125082

8

647.2113 Manufactured No

110 Each

7.0000

1 1

647 2113

Lower Rail, U-Channel

**

APR 13 2017

DAS 27 9-89
DAS 6 9-89

Location

Loc Qty

Loc Code

CCK083

7

144770

2

149972

5

91292A080 Purchased No

110 Each

14.0000

4 4

91292A080

Screw

**

APR 13 2017

DAS 27 9-89
DAS 6 9-89

Location

Loc Qty

Loc Code

ST588

14

M127948

14

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Page 4

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
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Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

DQA: _____ Date: _____



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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Work Order ID: 159459

159459

Parent Item: 647.1305

647 1305

Parent Item Name: EC145 Cable Cutter System Removable Provisions U Channel Compatible

Start Date: 4/18/2017

Required Date: 4/20/2017

Start Qty: 1.00

Required Qty: 1.00

AN3C10A Purchased No

110 Each 8.0000 2 2

AN3C10A

Bolt

**

DAS
6
9-89

APR 13 2017

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST349

8

m136983

8

AN525-10R12

Purchased No

110 Each 120.0000 4 4

AN525-10R12

Screw

**

DAS
6
9-89

APR 13 2017

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST329

120

102587

120

LN9025-0820K

Purchased No

110 Each 42.0000 8 8

I N9025-0820K

Lock Tab Washer

**

DAS
6
9-89

APR 13 2017

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST564

42

M136620

42

LN9037-08018

Purchased No

110 Each 0.0000 8 8

I N9037-08018

Screw

**

DAS
6
9-89

APR 18 2017

DAS
27
9-89

DAS
28
9-89

MS21042-08

MS21042L08

Purchased No

110 Each 0.0000 4 4

MS21042-08

USE MS21042L08

**

DAS
6
9-89

APR 13 2017

DAS
27
9-89

DAS
28
9-89

MS21042-3

MS21042L3

Purchased No

110 Each 0.0000 19 19

MS21042-3

Nut

**

DAS
6
9-89

APR 13 2017

DAS
27
9-89

DAS
28
9-89

Tuesday, April 11, 2017 12:50:28 PM

Shop Packet Print

Page 6

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Picklist Print

Tuesday, April 11, 2017 12:50:28 PM

Page 7

Work Order ID: 159459

159459

Parent Item: 647.1305

647 1305

Parent Item Name: EC145 Cable Cutter System Removable Provisions U Channel Compatible

Start Date: 4/18/2017

Required Date: 4/20/2017

Start Qty: 1.00

Required Qty: 1.00

MS21042L4 Purchased No

110 Each 1,055.000 4 4

MS21042L4

Nut

**

DAS
28
9-89

Location

Loc Qty

Loc Code

FP001	10	
m133363	10	
GA	154	
m135058	154	
ST303	891	
m136986	391	
m137106	500	

APR 13 2017

DAS
6
9-89

DAS
27
9-89

MS27039-1-14 Purchased No

110 Each 644.0000 4 4

MS27039-1-14

Screw

**

DAS
28
9-89

Location

Loc Qty

Loc Code

GA	90	
120449	90	
over006	500	
124326	500	
ST280	54	
124326	54	

APR 13 2017

DAS
6
9-89

DAS
27
9-89

NAS1149F0332P Purchased No

110 Each 2,514.000 42 42

NAS1149F0332P

Washer

**

DAS
28
9-89

Location

Loc Qty

Loc Code

GA	335	
m133709	335	
ST262	2179	
m136835	379	
m137075	1800	

APR 13 2017

DAS
6
9-89

DAS
27
9-89

Tuesday, April 11, 2017 12:50:28 PM

Shop Packet Print

Page 7

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

Tuesday, April 11, 2017 12:50:28 PM

Work Order ID: 159459

159459

Parent Item: 647.1305

647 1305

Parent Item Name: EC145 Cable Cutter System Removable Provisions U Channel Compatible

Start Date: 4/18/2017

Required Date: 4/20/2017

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0432P

Purchased

No

110

Each

583.0000

8

8

APR 13 2017

NAS1149F0432P

WASHER

DAS
28
9-89

Location

Loc Qty

Loc Code

ST262

583

M136442

583

110

Each

1,526.000

8

8

APR 13 2017

NAS1149FN832P

Purchased

No

NAS1149FN832P

Washer

Location

Loc Qty

Loc Code

GA

323

M135058

232

M136182

91

ST263

1203

M136866

1203

110

Each

70.0000

4

4

APR 13 2017

NAS6604-66

Purchased

No

NAS6604-66

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

ST553

70

124328

28

M130388

42

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By																																																									
								Lead hand / Supervisor Approval Verification																																																									
								QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :			
Misidentified ☐	Past Due ☐																																																																

REFERENCE ONLY

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	4	4		4	4		4	4	51	601.3209	LOCKNUT	MS21042L4	
1	4	5	1	4	5	1	8	9	50	601.2973	LOCKNUT	MS21042-08	
27	19	46	27	19	46	27	18	45	49	601.2943	LOCKNUT	MS21042-3	
	3	3		3	3		3	3	48	601.2375	WASHER		
2	8	10	2	8	10	2	16	18	47	601.2764	WASHER	NAS1149FN832P	
62	42	104	62	42	104	62	40	102	46	601.1607	WASHER	NAS1149F0332P	
1		1	1		1	1		1	45	601.2525	SCREW	MS27039-0807	
4		4	4		4	4		4	44	601.1952	SCREW	MS27039-1-20	
							4	4	43	601.3010	SCREW	MS27039-0810	
	4	4		4	4		4	4	42	601.3224	SCREW	AN525-10R12	
6		6	6		6	6		6	41	601.1365	SCREW	MS27039-1-10	
3		3	3		3	3		3	40	601.2198	SCREW	MS27039-1-07	
	3	3		3	3		3	3	39	601.2999	SCREW		
18		18	18		18	18		18	38	601.2459	SCREW	MS27039C1-06	
	4	4		4	4		4	4	37	601.1622	SCREW	MS27039-1-14	
10		10	10		10	10		10	36	601.2051	SCREW	MS24694C52	
2		2	2		2	2		2	35	601.2823	BOLT	AN3-4A	
1		1	1		1	1		1	34	601.1324	BOLT	AN4CH6A	
	2	2		2	2		2	2	33	601.1874	BOLT	AN3C10A	
	12	12		12	12		16	16	32	601.2826	BOLT	AN3-11A	
	8	8		8	8		8	8	31	601.2638	WASHER	NAS1149F0432P	
	4	4		4	4		4	4	30	601.3002	BOLT	NAS6604-66	
2		2	2		2	2		2	29	647.1811	SPACER		
4		4	4		4	4		4	28	647.2511	NUT		
4		4	4		4	4		4	27	647.2510	SLEEVE		
13		13	13		13	13		13	26	647.1812	SHIM		
4		4	4		4	4		4	25	647.1910	CLIP		
1		1	1		1	1		1	24	647.1810	NOSE DOOR DOUBLER		
1		1	1		1	1		1	23	647.1818	NOSE DOOR SPACER		
2		2	2		2	2		2	22	647.1813	ANGLE		
1		1	1		1	1		1	21	647.1913	TEE		
1		1	1		1	1		1	20	647.1814	GUSSET, LH		
1		1	1		1	1		1	19	647.1815	GUSSET, RH		
1		1	1		1	1		1	18	647.1915	SUPPORT ANGLE		
	2	2		2	2		2	2	17	647.2011	LOWER STRUT		
1		1	1		1	1		1	16	647.1914	BRACKET		
1		1	1		1	1		1	15	647.1816	SUPPORT, LH		
.1309	.1308	.1307	.1306	.1305	.1304	.1303	.1302	.1301	FIND #	PART #	DESCRIPTION	MATL	SPEC.

BOM Table(Restructured)

ORIGINAL DATE 07/06/09	DART AEROSPACE 3030 ENTERPRISE CT., SUITE A VISTA, CA 92083 (760)-724-5300		
DRAWN BY M. ROSANO			
CHECKED BY D. BARBER			
DRAWING APPROVAL P. BRAVO 08/05/09			
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.03 3 PLACE DECIMALS ±.010 ANGLES ±.5°			
SEE B	CAGE CODE 07M26	DWG. NO. 647.1300	REV. D
SCALE NONE		SHEET 2 OF 10	

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NOTES: UNLESS OTHERWISE SPECIFIED

- 1 AFTER INSTALLATION, APPLY F/N 73 A/R TO FILL GAPS AND FILLET EDGES
2. APPLY F/N 74 TO FAYING SURFACES
- 3 AT CUSTOMERS OPTION, INSTALL F/N 77 BY MATCH DRILLING ONTO F/N 1
- 4 INSTALL FOR 647.1301, 647.1302.
- 5 INSTALL FOR 647.1304, 647.1305.
- 6 APPLICABLE WHEN EUROCOPTER P/N 145-250014.11 IS INSTALLED WITH EUROCOPTER CABLE CUTTER FIXED PROVISIONS.
- 7 APPLICABLE WHEN REPLACING EUROCOPTER P/N 145-250074.11
- 8 INSTALL WITH:
647.1304
647.1305
647.1307
647.1308

REFERENCE ONLY

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
LAST PROTOTYPE REVISION: P23			
N/C	INITIAL RELEASE	06/05/99	P. BRAYD
A	INCORPORATED ECH 02P43, 03020, 03048	01/25/11	P. BRAYD
B	INCORPORATED ECH 03P19	07/05/13	P. BRAYD
C	INCORPORATED ECH 04059	08/13/13	P. BRAYD
D	INCORPORATED ECH1 04485, 045721 & 04976	04/17/15	P. BRAYD

1		1	1		1	1		1	14	647.1817	SUPPORT, RH		
1		1	1		1	1		1	13	647.1912	BRACKET, LH		
1		1	1		1	1		1	12	647.1911	BRACKET, RH		
	8	8		8	8		8	8	11	647.0112	STRUT BRACKET		
							1	1	10	647.2110	LOWER RAIL		
							1	1	9	647.2111	UPPER RAIL		
	1	1		1	1		1	1	8	647.1610	WIPER DEFLECTOR, FWD		
	1	1		1	1		1	1	7	647.1601	WIPER DEFLECTOR ASSY, AFT		
						2	2		6	647.1701	SKID DEFLECTOR ASSY		
1		1	1		1	1		1	5	647.3201	GROUNDING CABLE ASSY		
1		1	1		1	1		1	4	647.2201	CROSS ASSY		
1		1	1		1	1		1	3	647.1602	DOUBLER ASSY		
	1	1		1	1		1	1	2	647.1402	CUTTER ASSY (LOWER)		
							1	1	1	647.1401	CUTTER ASSY (UPPER)		
X										647.1309	EC145 T2 FIXED PROVISIONS KIT		
	X									647.1308	EC145 T2 REMOVABLE PROVISIONS KIT		
		X								647.1307	EC145 T2 CABLE CUTTERS KIT		
			X							647.1306	FIXED PROVISIONS KIT U CHANNEL		
				X						647.1305	REMOVABLE PROVISIONS KIT U CHANNEL		
					X					647.1304	EC145 CABLE CUTTERS KIT U CHANNEL COMPATIBLE		
						X				647.1303	FIXED PROVISIONS KIT		
							X			647.1302	REMOVABLE PROVISIONS KIT		
								X		647.1301	EC145 CABLE CUTTERS KIT		
.1309	.1308	.1307	.1306	.1305	.1304	.1303	.1302	.1301	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.

BOM Table(Restructured)

QTY	ORIGINAL DATE	PARTS LIST
NEXT ASSY (S)	DESIGNED BY R. ROSANO	DRAWN BY D. BARKER
	CHECKED BY D. BARKER	
	APPROVED BY P. BRAYD	
	DATE 07/05/13	
	CONTRACT NO.	
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS .003 ANGLES ± .5°	
	SIZE B 07/04/16	DWG. NO. 647.1300
	SCALE NONE	REV. D
		SHEET 1 OF 10

DART 3030 ENTERPRISE CT., SUITE A
VISTA, CA. 92081
(760)724-5300
AEROSPACE
AERIAL INDUSTRIES, INC.
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EC145 CABLE CUTTERS KIT

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ITEM #	ITEM NAME	QTY	UNIT	MATERIAL	DESCRIPTION	PART #	FIND #	BOM Table (Restructured)											
								1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312
1	12	12			NUT PLATE	600.0795	52	12	12	12	12		12	12	12	12	12	12	12
2	12	12			NUT PLATE RIVET	601.2980	53	12	12	12	12		12	12	12	12	12	12	12
3	4	4			NUT PLATE RIVET	601.1983	54	4	4	4	4		4	4	4	4	4	4	4
4	12	12			NUT PLATE RIVET	601.2207	55	12	12	12	12		12	12	12	12	12	12	12
5	4	4			RIVET	601.1915	56	4	4	4	4		4	4	4	4	4	4	4
6	8	8			RIVET	601.2995	57	8	8	8	8		8	8	8	8	8	8	8
7	22	22			RIVET	601.0790	58	22	22	22	22		22	22	22	22	22	22	22
8	8	8			RIVET	601.1183	59	8	8	8	8		8	8	8	8	8	8	8
9	2	2			RIVET	601.1039	60	2	2	2	2		2	2	2	2	2	2	2
10	11	11			RIVET	601.2991	61	11	11	11	11		11	11	11	11	11	11	11
11	16	16			RIVET	601.2468	62	16	16	16	16		16	16	16	16	16	16	16
12	12	12			RIVET	601.2364	63	12	12	12	12		12	12	12	12	12	12	12
13	2	2			INSERT	601.3008	64	2	2	2	2		2	2	2	2	2	2	2
14	1.1 FT.	1.1 FT.			GROMMET	601.3007	65	1.1 FT.	1.1 FT.	1.1 FT.	1.1 FT.		1.1 FT.	1.1 FT.	1.1 FT.	1.1 FT.	1.1 FT.	1.1 FT.	1.1 FT.
15	3 FT.	3 FT.			P-SEAL	601.3011	66	3 FT.	3 FT.	3 FT.	3 FT.		3 FT.	3 FT.	3 FT.	3 FT.	3 FT.	3 FT.	3 FT.
16	2	2			CAMLOC RECEPACLE	601.3006	67	2	2	2	2		2	2	2	2	2	2	2
17	2	2			CAMLOC RETAINER	601.3005	68	2	2	2	2		2	2	2	2	2	2	2
18	2	2			CAMLOC STUD	601.3004	69	2	2	2	2		2	2	2	2	2	2	2
19	4	4			SCREW	601.3012	70	4	4	4	4		4	4	4	4	4	4	4
20	1	1			PART A	600.0990	71	1	1	1	1		1	1	1	1	1	1	1
21	1	1			MAGBOND 6398	600.0991	72	1	1	1	1		1	1	1	1	1	1	1
22	1	1			PART B	600.0991	73	1	1	1	1		1	1	1	1	1	1	1
23	1	1			SEALANT	600.1012	74	1	1	1	1		1	1	1	1	1	1	1
24	1	1			RTV	601.2045	75	1	1	1	1		1	1	1	1	1	1	1
25	2	2			UPPER STRUT	647.2010	76	2	2	2	2		2	2	2	2	2	2	2
26	2	2			SCREW	601.1954	77	2	2	2	2		2	2	2	2	2	2	2
27	REF	REF			GPS MOUNT KIT	647.5701	78	REF	REF	REF	REF		REF	REF	REF	REF	REF	REF	REF
28	5	5			BOLT	601.3650	79	5	5	5	5		5	5	5	5	5	5	5
29	1	1			CUTTER ASSY (UPPER U CHANNEL)	647.1403	80	1	1	1	1		1	1	1	1	1	1	1
30	4	4			SCREW	601.3651	81	4	4	4	4		4	4	4	4	4	4	4
31	4	4			LOCKNUT	601.3652	82	4	4	4	4		4	4	4	4	4	4	4
32	8	8			WASHER	601.3653	83	8	8	8	8		8	8	8	8	8	8	8
33	1	1			UPPER U CHANNEL	647.2112	84	1	1	1	1		1	1	1	1	1	1	1
34	8	8			SCREW	601.3654	85	8	8	8	8		8	8	8	8	8	8	8
35	8	8			WASHER	601.3655	86	8	8	8	8		8	8	8	8	8	8	8
36	1	1			LOWER RAIL (U CHANNEL KIT)	647.2113	87	1	1	1	1		1	1	1	1	1	1	1
37	2	2			SKID DEFLECTOR ASSY	647.1702	88	2	2	2	2		2	2	2	2	2	2	2
38	8	8			LOCK TAB	601.3812	89	8	8	8	8		8	8	8	8	8	8	8
39	2	2			12 SKID DEFLECTOR ASSY	647.1703	90	2	2	2	2		2	2	2	2	2	2	2

SCALE NONE
 SHEET 3 OF 10
 REV D
 647.1300
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